



Concrete Bridge Design with the AASHTO LRFD Bridge Design Specifications

February 17, 2006
Indianapolis, Indiana

Course Description

This concrete bridge design seminar is sponsored by the Federal Highway Administration and the Indiana Department of Transportation in partnership with the National Concrete Bridge Council and the Portland Cement Association. The Indiana DOT will discuss recent changes to the INDOT Bridge Design Manual describing the statewide transition to LRFD implementation. The latest developments in the state-of-the-art design methodologies for concrete design outlined in the AASHTO LRFD Bridge Design Specifications will be discussed. The seminar will focus on the unified method of design for reinforced and prestressed concrete, shear design utilizing modified compression field theory and strut-and-tie modeling, and highlight key steps in LRFD concrete superstructure, substructure and deck design.

Why Attend?

Beginning October 2007, all bridges receiving federal funding must be designed utilizing AASHTO's LRFD Bridge Design Specifications. The Indiana DOT has begun a transition to the LRFD design philosophy. This course will provide an understanding of the background of the LRFD specifications, an overview of the state-of-the-art design procedures, and design examples that will aid you in applying the Specification provisions.

CEUs and PDHs

Participants will receive 0.65 CEUs (6.5 PDHs) for this seminar.

What's Included?

Each attendee will receive copies of all PowerPoint slides and design examples presented.

Registration Fee

\$195 for consultants, \$100.00 for academic, and \$50 for students

Course Location

The Atrium, 3143 East Thompson Road, Indianapolis, IN

Seminar Agenda

- 7:30 am Registration
- 8:00 am Welcome, Introductions
- 8:15 am Unified Design and Other New Concepts – Basile Rabbat, SE, PhD
- 9:15 am Shear Design, Modified Compression Field Theory – Shri Bhide, SE, PE, PhD
- 10:00 am Break
- 10:15 am Strut and Tie Model – Basile Rabbat, SE, PhD
- 11:15 am Deck Design – Shri Bhide, SE, PE, PhD
- 12:00 noon Lunch
- 1:00 pm INDOT Bridge Design Manual and LRFD Implementation – INDOT Representatives
- 2:00 pm Strut and Tie Design Example – Basile Rabbat, SE, PhD
- 3:00 pm Break
- 3:15 pm PSC Girder Design Example – Shri Bhide, SE, PE, PhD
- 4:45 pm Adjourn



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Registration Form

Name _____
Name for Badge _____
Organization _____
Address _____
City _____ State _____ Zip _____
Phone _____ Fax _____
Email _____

CIRCLE APPROPRIATE REGISTRATION FEE

- Consultant \$195
- Academic \$100
- Student \$50

PAYMENT TOTAL (See above for fees.): \$ _____

Payment must accompany registration form. Make payable to “Portland Cement Association” by U.S. denominated check drawn on U.S. Bank.

Mail Payments and Registration forms by February 9, 2006 to:

Caron Johnsen, PCA, 5420 Old Orchard Road, Skokie, IL 60077-1083

Paying by credit card – fax the completed registration form with cardholder name, credit card number and expiration date to 847-581-0644.

Registration questions – Contact Caron Johnsen at 847-972-9058.

Cancellation Policy: Only Substitutions may be made at any time. Cancellations are not allowed.
